

1884 + 1888
1236 to 1285

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1236 to 1285

10-25 am Log req. 86.00

Grenada Bight

25 miles east of M V
 $\frac{15}{40}$
 $\frac{2}{82}$ 14 1/2

Long Exp 70-49
 140 8
 70 57

41.12
 $\frac{14.30}{40.57.30}$ M
70 58 M

Lat Exp 41.12.00
 Exp 14-30
41.57.30

1247 drift A & Bim 3/8 miles
 1248 " " " 3/8 "

8881 A 7881

1236

Specimens Obtained

~~At Sea~~

Flounders starfish dead shell
Cannons.

TEMPERATURE RECORD.

Instrument used, *Bean Trawl*
Current number of observation, *1286*
Date, *Aug 30 1887*
Locality, *Black Island Sound*
Bearings, *Lighthouse light N 65 E 1/2 E Littlehamlet N x E*
Romans Land S 60 E 3/4 E
Time of day, *9.03 am*, of tide, *W*
State of sky, *bc*
Temperature of air, *65*
" surface of water, *62*
" at depth of fathoms,
" of bottom, *60*
Depth, in fathoms, *19.5*
Nature of bottom, *Hard*
Direction of surface current, *Wind S S W*
Force of surface current, *Wind 2*
Direction of bottom current, *drift S x E 3/4*
Force of bottom current,
Name of vessel, *U S S Fish Hawk*
To what service attached, *U S F C*
Name and rank of commanding officer, *Jamett Smith*
Master of R
Name and position of observer,
J. M. Lighton
Master of R

1237

REMARKS.

Specimens Obtained
Flounders Hair Shell, Lobsters
Skate Eel

TEMPERATURE RECORD.

Instrument used, *Beaman Travel*
 Current number of observation, *1287*
 Date, *Aug 30th 1887*
 Locality, *Block Island Sound*
 Bearings, *Gayhead Lt. S 4 N*
No Name Land S 61 E 5/8 E Lightly wooded N 64 N
 Time of day, *12 AM*; of tide, *W*
 State of sky, *bc*
 Temperature of air, *67*
 " surface of water, *64*
 " at depth of _____ fathoms,
 " of bottom, *58*
 Depth, in fathoms, *20*
 Nature of bottom, *Hard*
 Direction of surface current, *Wind Drift*
 Force of surface current, *Wind* *0*
 Direction of bottom current, *Drift* *3/4*
 Force of bottom current,
 Name of vessel, *U.S.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James S. Smith*
 Name and position of observer, *John S. Smith*
Master

1228

REMARKS.

Specimens Obtained

Broken or all shells + rocks

1849 1st half

1849

1849

1849

LEWISVILLE RECORDS

TEMPERATURE RECORD.

Instrument used, *Dredge*
 Current number of observation, *1238*
 Date, *Aug 30th 1887*
 Locality, *Block Island Sound*
 Bearings, *Lay Head Lt. E 1/4 N*
Leally Point Lt. E 1/4 N In main Land E S E
 Time of day, *10.45 am*; of tide, *W*
 State of sky, *bc*
 Temperature of air, *65*
 " surface of water, *64*
 " at depth of _____ fathoms,
 " of bottom, *61*
 Depth, in fathoms, *20E*
 Nature of bottom, *Sand & broken shell*
 Direction of ~~surface~~ *Wind* current, *South*
 Force of ~~surface~~ *Wind* current, *2*
 Direction of ~~bottom~~ *Drift* current, *1/2*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James Smith*
Master
 Name and position of observer, *John H. ...*
Master

651168

1239

REMARKS.

Specimens Obtained
Shake Sculpin *Gaidropsarus*

10999 10999

~~10999~~
~~10999~~
~~10999~~
~~10999~~

REVERSE SIDE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1239*

Date, *August 30th 1887*

Locality, *Block Island Sound*

Bearings, *Hen + Chicken Light - Ship N 82° $\frac{1}{4}$ E*

Cuttyhunk Lt N E. To Main Land S 8° $\frac{3}{4}$ E

Time of day, *11.35 am*; of tide, *W*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *62*

" at depth of fathoms,

" of bottom, *61*

Depth, in fathoms, *16*

Nature of bottom, *Hard*

Direction of ~~surface current~~ *Wind SW*

Force of ~~surface current~~ *Wind 2*

Direction of bottom current, *drift* *$\frac{1}{2}$*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer *Jam. H. Smith*
Mate U.S.F.C.

Name and position of observer, *J. M. Lighton*
Mate U.S.F.C.

1240

REMARKS.

Specimens Obtained
Hail Skate & Grock fish
Flounders & star fish

REVERSE SIDE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1245*

Date, *August 20th 1887*

Locality, *Block Island Sound*

Bearings, *Vineyard Sound Lt Ship N 7 1/2 W*

Gayhead E 1 3/4 S to Main Land SSE 1/2 E

Time of day, *12.44 P.M.*; of tide, *W*

State of sky, *bc*

Temperature of air, *64*

" surface of water, *62*

" at depth of fathoms,

" of bottom, *60*

Depth, in fathoms, *18.5*

Nature of bottom, *Blue mud*

Direction of ~~surface~~ *wind* *SW*

Force of ~~surface~~ *wind* *2*

Direction of ~~bottom~~ *drift* *A* *1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James H. Smith*
Master U.S.N.

Name and position of observer, *J. M. Lightham*
Master U.S.N.

1246

REMARKS.

Specimens Obtained
Dead shells Hermit crabs

LEWIS & CLARK RECORD

TEMPERATURE RECORD.

Instrument used, *Snodgrass*
 Current number of observation, *1246*
 Date, *Sept 5th 1887*
 Locality, *Vineyard Sound*
 Bearings, *Bishop Heber St E 3/4 N*
Succowset Light Ship N 1/4 E 3/4 N
 Time of day, *10.27* ; of tide, *E*
 State of sky, *bc*
 Temperature of air, *70*
 " surface of water, *68*
 " at depth of _____ fathoms,
 " of bottom, *69.5*
 Depth, in fathoms, *21*
 Nature of bottom, *land broken shells*
 Direction of surface current, *Wind East*
 Force of surface current, *Wind 2*
 Direction of bottom current, *drift ESE 1/4*
 Force of bottom current, ~~*ESE*~~ *A*
 Name of vessel, *U.S.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James Smith*
Mate U.S.F.C.
 Name and position of observer, *Amberston*
Mate U.S.F.C.

Specimens Obtained
Spider Crabs. Horse shoe crabs
Starfish and dead ~~shells~~^{gull}
live shell + Squid.

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1242*

Date, *Sept 5th 1887*

Locality, *Vineyard Sound*

Bearings, *Bishop + Lelukes St E 1/2 N*

Succowet St Ship N 1/4 N

Time of day, *10.50 am*; of tide, *E*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *69.*

Depth, in fathoms, *18*

Nature of bottom, *Sand + Shale*

Direction of ~~surface current~~, *wind East*

Force of ~~surface current~~, *wind 2*

Direction of ~~bottom current~~, *drift N N W 1/4*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *James A Smith
Master USN*

Name and position of observer, *J. M. Smith
Master USN*

1243
REMARKS.

Specimens obtained
dead shell birds from

TEMPERATURE RECORD.

Instrument used, *Snags*
 Current number of observation, *1248*
 Date, *Sept 5th 1887*
 Locality, *Vinograd Sound*
 Bearings, *Bishop & Leber St E 1/2 N*
Succowet St Ship N 1/4 W
 Time of day, *11 15 am*; of tide, *E*
 State of sky, *bc*
 Temperature of air, *70*
 " surface of water, *68*
 " at depth of fathoms,
 " of bottom, *69-5*
 Depth, in fathoms, *15.5*
 Nature of bottom, *Sand shell rocks*
 Direction of ~~surface current~~ *Wind East*
 Force of ~~surface current~~ *Wind 2*
 Direction of ~~bottom current~~ *Drift N x E* *44*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James H. Smith*
Master U.S.N.
 Name and position of observer, *J. M. Brighton*
Master U.S.N.

NEWYORK

1244
REMARKS.

Specimens Obtained
Conchs & Shells

LEWISVILLE RECORD

TEMPERATURE RECORD.

Instrument used, *Therm*
 Current number of observation, *1244*
 Date, *Sept 5th 1887*
 Locality, *Vinograd Sound*
 Bearings, *Myannis or E x N 1/2 E*
Bishop & Clark S E 1/2 E Succoesset St Ship N 1/2 S
 Time of day, *11.54 Am*; of tide, *N*
 State of sky, *bc*
 Temperature of air, *70*
 " surface of water, *67*
 " at depth of _____ fathoms,
 " of bottom, *69.5*
 Depth, in fathoms, *5.5*
 Nature of bottom, *Sand Mud Shell*
 Direction of ~~surface~~ *Wind* current, *East*
 Force of ~~surface~~ *Wind* current, *2*
 Direction of ~~bottom~~ *drift* current, *N x E* *1/4*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James Smith*
Master
 Name and position of observer,
J. M. Lighton
Master U.S.F.C.

1245
REMARKS.

Specimens Obtained

Winkles - Hermit crabs
a few live clams and
many dead clam shells
Keep mud & Eel grass
a few small fish - Skup and
Sea robbers

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1245*

Date, *Sept 5th 1887*

Locality, *Off Hoyaunis*

Bearings *Hoyaunis St - N 6 1/4 N*

Bishop + Clerks St - E 1/2 S *Collins Beacon*
N 7/4 W

Time of day, *12.22 P.M.* of tide, *N*

State of sky, *b-c*

Temperature of air, *68*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *69.5*

Depth, in fathoms, *4.5*

Nature of bottom, *Sand + Shell*

Direction of surface current, *Wind South*

Force of surface current, *Wind 3*

Direction of bottom current, *drift N x N 1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith*

Name and position of observer,

J. M. Mearns
Master USN

1246

REMARKS.

Specimens Obtained
Leuchus Horse shoe Crabs
Stone

1247

REMARKS.

Specimens Obtained
Sand dollars starfish
Hairs skate flounder + shells
Sea urchins Pecten.

1247

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1247*

Date, *Sept-6th 1887*

Locality, *South of Martha Vineyard 25^{miles}*

Bearings, *Lat 41° 00' 45" Lon 71° 00' 05"*

Time of day, *9.49 am*; of tide, *East*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *65*

" at depth of *15* fathoms, *62*

" of bottom, *53.5*

Depth, in fathoms, *27*

Nature of bottom, *Sand*

Direction of surface current, *Wind SW*

Force of surface current, *Wind 4*

Direction of bottom current, *SE 1/2 E 3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith Mate U.S.F.C.*

Name and position of observer, *J. M. Lightin Mate U.S.F.C.*

1248

REMARKS.

Specimens Obtained
Lorse fish flounders Pecten
Hairs, Yellow sponge, Sea Robbins
sand dollars.

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1248*

Date, *Sept 6th 1887*

Locality, *Smiths of Martha's Vineyard*

Bearings, *1 mile N & E of Port Moring 24*

Lat 41° 02' 00" Long 71° 00' 00"

Time of day, *10.39 am* of tide.

State of sky, *bc*

Temperature of air, *68*

" surface of water, *64*

" at depth of *15* fathoms, *63*

" of bottom, *ss*

Depth, in fathoms, *26.5*

Nature of bottom, *Sand*

Direction of surface current, *sw*

Force of surface current, *4*

Direction of bottom current, *Drift N 8 1/2 W* *3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer,

*J. M. Nighton
Mate U.S.F.C.*

1249

REMARKS.

Specimens Obtained
Sand dollars flounders Hairs
Skate Eschscholzia

17958

~~Handwritten scribbles~~

~~Handwritten scribbles~~

~~Handwritten scribbles~~

~~Handwritten scribbles~~

~~Handwritten scribbles~~

~~Handwritten scribbles~~

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TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1249*

Date, *Sept 6th 1887*

Locality, *South of Martha's Vineyard 2 1/2 miles*

Bearings, *2 miles N x E of last bearing 2 1/2 miles*

Lat *41° 04' 00"* Lon *70° 59' 30"*

Time of day, *11.29 am*, of tide,

State of sky, *bc*

Temperature of air, *67*

“ surface of water, *64*

“ at depth of *12* fathoms, *63*

“ of bottom, *57*

Depth, in fathoms, *225*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *Wind SW*

Force of ~~surface~~ current, *Wind 4*

Direction of ~~bottom~~ current, *Drift - N E 1/2 N 3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master U.S.F.C.*

Name and position of observer, *J. M. Wright
Master U.S.F.C.*

REMARKS.

Specimens Obtained
Hounders sand dollars
shell Naick Aculpina

1878

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1250*

Date, *Sept 6th 1887*

Locality, *South of Martha's Vineyard*

Bearings, *3 miles N & E of last bearing*

Lat 41° 06.00" Lon 70° 59.15"

Time of day, *12.30 PM*; of tide, *—*

State of sky, *Cloudy*

Temperature of air, *67*

" surface of water, *64*

" at depth of *10* fathoms, *65*

" of bottom, *58.5*

Depth, in fathoms, *20.5*

Nature of bottom, *1 Sand*

Direction of ~~surface~~ *Mud* current, *SW*

Force of ~~surface~~ *Wind* current, *4*

Direction of ~~bottom~~ *Drift* current, *N 6 1/2 E* *3/8*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S. F. & B.*

Name and rank of commanding officer, *James H. Smith*
Mate U.S.N.

Name and position of observer,

J. M. Nightingale
Mate U.S.N.

1251

REMARKS.

Specimens Obtained
Skate sand dollars Hair
Flounders Sculpin

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1252*

Date, *Sept 6th 1887*

Locality, *Smiths of Martha's Vineyard*

Bearings, *4 miles N + E of last bearings* ^{1 1/2 miles}

Lat 41. 10. 00" Lon 70. 59. 15"

Time of day, *1. 36 PM* ; of tide.

State of sky, *bc*

Temperature of air, *67*

" surface of water, *64*

" at depth of *10* fathoms, *62*

" of bottom, *60*

Depth, in fathoms, *17*

Nature of bottom, *Sand*

Direction of surface current, *Wind SW*

Force of surface current, *Wind 4*

Direction of bottom current, *Drift NE 1/2 N 3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James Smith
Master of m.*

Name and position of observer,

*J. Lenington
Mate of m.*

1252

REMARKS.

Specimens Obtained
Starfish Skate Flounder
Sand Crabs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1252*

Date, *Aug 20 1888*

Locality, *Manamoras Right*

Bearings, *Saybrook W & 1/4 N*

Long Point line N & 1/2 E 1/2 S Licks Hole North

Time of day, *1050* ; of tide, *East*

State of sky, *bc*

Temperature of air, *69*

“ surface of water, *65*

“ at depth of ~~65~~ fathoms,

“ of bottom, *63*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Mud N W*

Force of ~~surface current~~, *Wind N*

Direction of ~~bottom current~~, *drift N N W 1/8*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.S. 76*

Name and rank of commanding officer, *James Smith
Mate U.S.N.*

Name and position of observer, *Amelia L. Tom
Mate U.S.N.*

1253

REMARKS.

Specimens Obtained

Sand dollars Conchs Flounders
State Sand Crabs, Kelp

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1253*

Date, *Aug 23rd 1888*

Locality, *Frensham Point*

Bearings, *Impoundin lead or NE 7/8 E*

Gay head W or W. Linnets Hole N or N W

Time of day, *11.05 am*; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *69*

" surface of water, *64*

" at depth of _____ fathoms,

" of bottom, *63*

Depth, in fathoms, *10*

Nature of bottom, *sand*

Direction of ~~surface~~ *Wind* *N W*

Force of ~~surface~~ *Wind* *4*

Direction of ~~bottom~~ *drift* *N N W 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master U.S.F.C.*

Name and position of observer, *J. M. Lighton
Master U.S.F.C.*

1254

REMARKS.

Specimens Obtained
Lobsters crabs Sea Robins Skate
Flounders & ~~Crabs~~ Kelp

REVERSE SIDE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1254*

Date, *August 23, 1888*

Locality, *Memphis River*

Bearings, *Terpaulin buoy N 5/8 E*

Gay head N 2/4 S Linder hole N 2/4 W

Time of day, *11, 23* ; of tide, *East*

State of sky, *bc*

Temperature of air, *68.5*

" surface of water, *64.5*

" at depth of _____ fathoms,

" of bottom, *63*

Depth, in fathoms, *9*

Nature of bottom, *Sand*

Direction of ~~surface~~ *wind* current, *N W*

Force of ~~surface~~ *wind* current, *4*

Direction of ~~bottom~~ *drift* current, *N N W 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James Smith*
Master U.S.A.

Name and position of observer,

J. M. Livingston
Master U.S.A.

1255

REMARKS.

Specimens Obtained
Kelp Skate Clam shells Flounders
Skid + eggs

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1255*

Date, *August 23rd 1884*

Locality, *Memphis Light*

Bearings, *Impaulin Cove N N E*

Gayhead N x N 1/2 S 1/2 S 1/2 W N x N 1/2 W

Time of day, *11:45* ; of tide, *East*

State of sky, *bc*

Temperature of air, *68.5*

“ surface of water, *65*

“ at depth of _____ fathoms,

“ of bottom, *63*

Depth, in fathoms, *104*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *SW*

Force of ~~surface~~ *Wind* current, *4*

Direction of ~~bottom~~ *Drift* current, *SW 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Mate U.S.F.C.*

Name and position of observer, *J. M. Lighton
Mate U.S.F.C.*

1256

REMARKS.

Specimens Obtained
Kelp Sand Islands

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Abney*Current number of observation, *1256*Date, *Aug 23rd 1888*Locality, *Vineyard Sound*Bearings, *West end of Crane land S ³/₄ E**Vineyard S ²/₄ E Slip N. of Gayhead S E x S ¹/₄ S*Time of day, *12.36 PM*; of tide, *East*State of sky, *bc*Temperature of air, *62*" surface of water, *64*

" at depth of _____ fathoms,

" of bottom, *61*Depth, in fathoms, *16*Nature of bottom, *Sand broken shells*Direction of ~~surface current~~, *Wind N W*Force of ~~surface current~~, *Wind 4*Direction of ~~bottom current~~, *drift E x N ¹/₄*

Force of bottom current,

Name of vessel, *U S Fish Hawk*To what service attached, *U S F C*Name and rank of commanding officer, *James Smith*
Master 2^d class

Name and position of observer,

J. M. Nightingale
Master 2^d class

1257

REMARKS.

Specimens Obtained
Keel Rock sponge, Skate
Sand Dollars, Cummins

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1257*

Date, *Aug 23rd 1888*

Locality, *Vineyard Sound*

Bearings, *Vineyard St Ship's H + W 1/2 W*

County trunk H + W 1/2 W Gayhead SE 3/4 E

Time of day, *1.08 P.M.*; of tide, *East*

State of sky, *b c*

Temperature of air, *64*

" surface of water, *64*

" at depth of _____ fathoms,

" of bottom, *59*

Depth, in fathoms, *14*

Nature of bottom, *Sand broken shell*

Direction of ~~surface current~~, *Wind West*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Drift NNE 1/8*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.S. 76*

Name and rank of commanding officer, *James B. Smith
Master U.S.N.*

Name and position of observer, *J. M. Loring
Master U.S.N.*

1258

REMARKS.

Specimens explained
Sea Roblin's Hairs skate &
Flounders. Help

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*
 Current number of observation, *1258*
 Date, *Aug 23^d 88*
 Locality, *Vineyard Sound*
 Bearings, *Vineyard Pt Ship N 1/2 W
 Cuttyhunk N 1/2 W 1/2 S Gayhead S E 1/4 E*
 Time of day, *1.26 P.M.* ; of tide, *Neap*
 State of sky, *bc*
 Temperature of air, *63.5*
 " surface of water, *64*
 " at depth of fathoms,
 " of bottom, *59*
 Depth, in fathoms, *15.5*
 Nature of bottom, *Sand*
 Direction of ~~surface~~ current, *Wind West*
 Force of ~~surface~~ current, *Wind S*
 Direction of ~~bottom~~ current, *Drift N x E* *3/8*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James Smith
 Mate U.S.F.C.*
 Name and position of observer, *J. M. Lightton
 Mate U.S.F.C.*

1259

REMARKS.

Specimens Obtained
Yellow sponge skate Flounders
Kelp Haik

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1259*

Date, *Aug 23* 88

Locality, *Vineyard Sound*

Bearings, *Vineyard Pt Ship N 1/2 W 1/4 W
Buttybank N 1/2 W Bayhead E 1/2 N*

Time of day, *2 PM* ; of tide, *West mt*

State of sky, *bc*

Temperature of air, *64.5*

" surface of water, *64.5*

" at depth of _____ fathoms,

" of bottom, *58.5*

Depth, in fathoms, *18*

Nature of bottom, *Sand*

Direction of ~~surface~~ wind *West*

Force of ~~surface~~ wind *3*

Direction of ~~bottom~~ drift *N E x N 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what ~~service~~ attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer, *J. Menington
Master*

1260

REMARKS.

Specimens Obtained
Head Shell

TEMPERATURE RECORD.

Instrument used, *Alfred*

Current number of observation, *1260*

Date, *Aug 23rd 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard to Ship N + N 1/2 N*
cuttyhunk N + E Gayhead S E 1/2 E

Time of day, *2.30 PM*; of tide, *West*

State of sky, *bc*

Temperature of air, *65*

“ surface of water, *64*

“ at depth of _____ fathoms,

“ of bottom, *60*

Depth, in fathoms, *64*

Nature of bottom, *Sand Mud + broken shells*

Direction of ~~surface current~~, *Wind West*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Drift N S W 1/4*

Force of ~~bottom current~~,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer, *J. M. Thompson*
Master

1261

REMARKS.

Specimens Obtained
Skate Hermit Crab Hole

TEMPERATURE RECORD.

Instrument used, *Beaufort Trawl*
 Current number of observation, *1261*
 Date, *August 28 88*
 Locality, *Vineyard Sound*
 Bearings, *Vineyard Lt Ship N W X W 3/4 W*
Leuttyhunk E X N 1/4 N Gayhead N E 1/8 E
 Time of day, *3.06 PM*; of tide, *great*
 State of sky, *bc*
 Temperature of air, *64.5*
 " surface of water, *63*
 " at depth of _____ fathoms,
 " of bottom, *61*
 Depth, in fathoms, *14.5*
 Nature of bottom, *Sand*
 Direction of ~~surface current~~, *Wind great*
 Force of ~~surface current~~, *Wind 3*
 Direction of ~~bottom current~~, *Drift NE*
 Force of bottom current,
 Name of vessel, *U.S.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer,
 Name and position of observer,

J. M. Lighton
Master

1262

REMARKS.

Specimen Obtained

Head shell clams Hermit Crabs
Rock sponges Puffins. Mussels
Skink Scallop Sculp Sea Robbins
Shark Spider Crabs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*
 Current number of observation, *1262*
 Date, *Aug 28 88*
 Locality, *Off Falmouth Vineyard Sound*
 Bearings, *Falmouth Heights N 85° E*
Subsidiary N 45° W 1/2 S 1/2 W at Chops Lighthouse S 80° E
 Time of day, *10:14 am*; of tide, *East*
 State of sky, *bc*
 Temperature of air, *65*
 " surface of water, *67*
 " at depth of fathoms,
 " of bottom, *68*
 Depth, in fathoms, *5*
 Nature of bottom, *Sandy*
 Direction of surface current, *Wind N*
 Force of surface current, *Wind 5*
 Direction of bottom current, *Drift N 85° E 1/2*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James W. Smith*
 Master U.S.N.
 Name and position of observer,
 M. W. Wright
 Master U.S.N.

1263

REMARKS.

Specimens Obtained
Same as 1262

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1263*

Date, *Aug 28 1898*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Falmouth Heights N E 5/8 N*

Ortakea Light N 45 1/4 S West Chop 32 1/2 S 1/4 S

Time of day, *10 2 AM*; of tide, *East*

State of sky, *bc*

Temperature of air, *64*

“ surface of water, *67*

“ at depth of _____ fathoms,

“ of bottom, *67*

Depth, in fathoms, *5*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *NW*

Force of ~~surface~~ *Wind* current, *5*

Direction of ~~bottom~~ *Drift* current, *N E x N 1/8*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F B*

Name and rank of commanding officer, *James A Smith
Master USN*

Name and position of observer, *J. M. Lightham
Master USN*

1264

REMARKS.

Specimens Blaine
shell star fish sea urchins
scallops flat fish gorgon
Rock sponges sea weed + sea grass
Conchs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1264*

Date, *Aug 28 88*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Falmouth Neighs N 46 1/2 E*

Stake Lt No 10 1/4 S. Nut chop Lt No 8 1/2 E

Time of day, *10 48 am* ; of tide, *East*

State of sky, *bc*

Temperature of air, *66*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *67*

Depth, in fathoms, *8*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *NW*

Force of ~~surface~~ *Wind* current, *5*

Direction of ~~bottom~~ *Wind* current, *N 8 x E 1/8*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *James Abmiste
Master U S N*

Name and position of observer, *Jordan Lighter
Master U S N*

1265

REMARKS.

Specimens Obtained

Dead shell sand Crabs Hermit Crabs

Rock sponge Eel grass

TEMPERATURE RECORD.

Instrument used, *Beam Therm*

Current number of observation, *1265*

Date, *Aug 28 88*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *West Chop S 46 1/4 E*

Observe at W 75 N. East Chop S 2 1/4 E

Time of day, *11, 04* ; of tide, *East*

State of sky, *bc*

Temperature of air, *66*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of surface current, *W*

Force of surface current, *5*

Direction of bottom current, *drift NE 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer, *J. M. Wright
Master*

1266

REMARKS.

Specimens Obtained
Lemnae, Clams, Spider Crabs, Sand
Crabs, Scallops

LEMBERTVILLE RECORDER

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1266*

Date, *Aug 28th 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Successor to Ship 20 x 1/2 +*

Collies Beacon N 7/8 E Bishop & Clark St N 8 1/4 E

Time of day, *12, 14 P.M.*; of tide, *East*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *70*

" at depth of _____ fathoms,

" of bottom, *69.5*

Depth, in fathoms, *16.5*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *wind N W*

Force of ~~surface current~~, *wind 5*

Direction of ~~bottom current~~, *drift N E*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jamies Smith*

Master U.S.F.C.

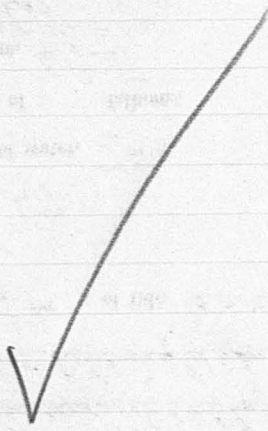
Name and position of observer,

J. H. Lighton
Master U.S.F.C.

1267

REMARKS.

Specimens obtained
head shell



TEMPERATURE RECORD.

Instrument used, *Standard*
Current number of observation, *1267*
Date, *Aug 28" 88*
Locality, *Off Hyannis Vineyard Sound*
Bearings, *Succunnetto Lt Ship N x S*
Colliers Beacon N E 1/4 N. Bishop + Clarks Lt N E 3/4 E
Time of day, *12:45 Pm* ; of tide, *Ebb*
State of sky, *bc*
Temperature of air, *66*
" surface of water, *69*
" at depth of _____ fathoms,
" of bottom, *69*
Depth, in fathoms, *15.5*
Nature of bottom, *Shall broken shell*
Direction of ~~surface current~~, *mud N x W*
Force of ~~surface current~~, *5*
Direction of ~~bottom current~~, *drift N x E*
Force of bottom current,
Name of vessel, *U.S. Fish Hawk*
U.S.F.C.
To what service attached,
Name and rank of commanding officer, *James Smith*
Mate U.S.
Name and position of observer, *J. M. Light*
Mate U.S.

1268

REMARKS.

Specimens obtained
Spider crabs. Sea Moss
Cmchs



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1268*

Date, *Aug 21 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Succonnetto Lt Ship N 44 1/2 W
Callers Beacon Lt 2 1/2 N Bishop + Telada Lt N E X 2 1/2 E*

Time of day, *12.55 PM* ; of tide, *East*

State of sky, *bc*

Temperature of air, *65*

“ surface of water, *68.5*

“ at depth of _____ fathoms,

“ of bottom, *69*

Depth, in fathoms, *17*

Nature of bottom, *Sand*

Direction of surface current, *Wind N W*

Force of surface current, *Wind 5*

Direction of bottom current, *Drift N E X N*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

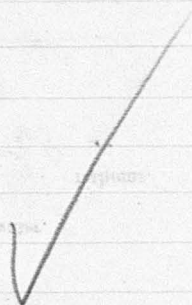
Name and rank of commanding officer, *James A. Conrite
Master U.S.N.*

Name and position of observer, *Wilmington
Master U.S.N.*

1269

REMARKS.

Specimens Obtained
Shells sand



TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Bridge*
 Current number of observation, *1269*
 Date, *Aug 29th 1880*
 Locality, *Off Hyannis Vineyard Sound*
 Bearings, *Succonnet Lt Ship N 74 W 1/2 W*
Gallies Beacon N 8 E. Bishop + Gladstone N 84 E 1/4 E
 Time of day, *1.18 P.M.* ; of tide, *East*
 State of sky, *bc*
 Temperature of air, *64*
 " surface of water, *68.5*
 " at depth of _____ fathoms,
 " of bottom, *69*
 Depth, in fathoms, *13.*
 Nature of bottom, *Sand*
 Direction of ~~surface~~ *under* current, *N W*
 Force of ~~surface~~ *under* current, *5*
 Direction of ~~bottom~~ *under* current, *N E* *1/4*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *James Abbot*
 Master U.S.N.
 Name and position of observer, *J. M. Light*
 Master U.S.N.

1270

REMARKS.

Specimens Obtained
Spiders Crabs, Lobsters. Sea
moss, young scup, dead shells

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1270*

Date, *Aug 28th 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Successor to Let Ship W. W. W.*

Balliers Beacon N 40° E. Bishop's Head Lt N E 1/4 N

Time of day, *1.44 P.M.*; of tide, *East*

State of sky, *Cloudy*

Temperature of air, *65*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *69*

Depth, in fathoms, *13*

Nature of bottom,

Direction of surface current, *Wind N W*

Force of surface current, *Wind 5*

Direction of bottom current, *Wind N E x N*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith
Master*

Name and position of observer, *J. M. Lightham
Master*

1271

REMARKS.

Specimens Obtained
Spider Crabs Mussels & shells
Rock weed & sponge



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1271*

Date, *Aug 28' 88*

Locality, *Off Plymouth Vineyard Sound*

Bearings, *Off Connecticut Light Ship N 71/8 W*

Colliers Beacon N 42 1/2 E. Bishop & Blackwell N 82 3/4 E

Time of day, *2.10 P.M.*; of tide, *East*

State of sky, *Cloudy*

Temperature of air, *64*

“ surface of water, *68*

“ at depth of _____ fathoms,

“ of bottom, *68*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *NW*

Force of ~~surface~~ *Wind* current, *5*

Direction of ~~bottom~~ *Drift* current, *Ex or*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James A. Smith
Master*

Name and position of observer, *Josiah H. Smith
Master*

1272
REMARKS.

Specimens Obtained
Flat fish skate star fish Pelican
Gony sloop crabs sea Robins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1272*

Date, *Sept 3rd 88*

Locality, *Monemsha Bay - Vinyard Sound*

Bearings, *Bay head N 7/8 S*

Quicks Hole N 1/2 W Tarpeulin Cove N 8 1/2 W

Time of day, *10.58* ; of tide, *Went*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *66*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *7*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *SE*

Force of ~~surface~~ *Wind* current, *3*

Direction of ~~bottom~~ *W* current, *N 7/8 W mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith
Master U.S.N.*

Name and position of observer, *W. H. H. H.
Master U.S.N.*

1273
REMARKS.

Specimens Obtained
Same as 1272

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1273*

Date, *Sept 3rd 88*

Locality, *Menemsha Light Tisbury and Sand*

Bearings, *Gay Head N 5/8 S*

Quicks Hole N 7/8 W Tapaquin Corl A 7/8 E

Time of day, *11.15 am* ; of tide, *near*

State of sky, *bc*

Temperature of air, *68*

“ surface of water, *67.5*

“ at depth of _____ fathoms,

“ of bottom, *64*

Depth, in fathoms, *8*

Nature of bottom, *sand*

Direction of surface current, *drift S 8*

Force of surface current, *3*

Direction of bottom current, *drift W 1/2 S mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith Mate*

Name and position of observer, *J. M. Lighter Mate*

1274

REMARKS.

Specimens Obtained
Lebistes skate sea Robbins Young
scup



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1274*

Date, *Sept 3 88*

Locality, *Menemsha Rip in Vineyard Sound*

Bearings, *Gayheads N 78 W*

Guides Hole N 74 W In Pauline Cove N X E 7/8 E

Time of day, *11:35 am*; of tide, *Neap*

State of sky, *bc*

Temperature of air, *68*

“ surface of water, *66.5*

“ at depth of _____ fathoms,

“ of bottom, *64.5*

Depth, in fathoms, *8*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind S E*

Force of ~~surface current~~, *3*

Direction of ~~bottom current~~, *drift N 1/2 S mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jarvis Smith
Mate U.S.N.*

Name and position of observer, *J. M. Lighton
Mate U.S.N.*

1275

REMARKS.

Specimens Obtained
Same as 1274

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1275*

Date, *Sept 3rd 88*

Locality, *Menemsha Light Tine and Sound*

Bearings, *Dayhead N 7/8 N*
Lighthouse N 1/2 N 1/2 S Pauline Cove N 1/2 E 3/4 E

Time of day, *11:45 am*; of tide, *rise*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *64.5*

Depth, in fathoms, *7*

Nature of bottom, *Sand*

Direction of ~~surface~~ *wind* current, *SE*

Force of ~~surface~~ *wind* current, *3*

Direction of ~~bottom~~ *drift* current, *or SW mag 7/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jamieson*
Master

Name and position of observer, *J. M. ...*
Master

1276

REMARKS.

Specimens Obtained
Sand dollars



Summer 2000

TEMPERATURE RECORD.

Instrument used, *Stanton Rake Therm*

Current number of observation, *1276*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Lighthouse S 1/4 W*

Vineyard St Ship W 1/4 W Tar Paulin Cove S 2 7/8 W

Time of day, *12.27 PM*; of tide, *most*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *67*

" at depth of _____ fathoms,

" of bottom, *64 fms*

Depth, in fathoms, *11.5*

Nature of bottom, *Sand & mud*

Direction of surface current, *Wind S E*

Force of surface current, *Wind 3*

Direction of bottom current, *Drift west 1/2 S mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer, *J. M. Smith
Master*

NEW YORK

1277

REMARKS.

Specimens Obtained
Sand dollars



TEMPERATURE RECORD.

Instrument used, *Liberta Rake Sledge*

Current number of observation, *1277*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Tanpaulin Cove N 82 E 1/2 S*

Vineyard St Ship N 82 E 1/2 S Gay head S 82 W 1/2 W

Time of day, *12:48 PM*; of tide, *neap*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *65*

" at depth of _____ fathoms,

" of bottom, *64*

Depth, in fathoms, *12*

Nature of bottom, *Sand mud*

Direction of ~~surface~~ *Wind* *S W*

Force of ~~surface~~ *Wind* *2*

Direction of ~~bottom~~ *light* *W 1/2 to mag 1/4*

Force of bottom current,

Name of vessel,

To what service attached,

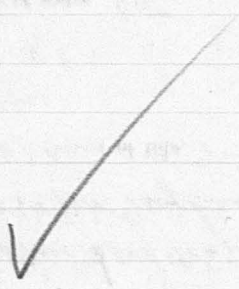
Name and rank of commanding officer, *James Smith*
Master USN

Name and position of observer, *John Light*
Master USN

1278

REMARKS.

Specimens Obtained
Sand Dollars Skate Flat fish
Scallops, Hermit Crabs
Sea Urchins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1278*

Date, *Sept 3^d 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard to Ship $100^{\circ} N \frac{1}{4} W$
Sauls to $80^{\circ} E \frac{1}{2} N$ Gayhead $80^{\circ} N \frac{1}{4} W$*

Time of day, *1.25 P.M.*; of tide, *low*

State of sky, *b.c.*

Temperature of air, *67*

" surface of water, *65*

" at depth of _____ fathoms,

" of bottom, *64*

Depth, in fathoms, *12.5*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind 80°*

Force of ~~surface current~~, *Wind 2*

Direction of ~~bottom current~~, *Drift $100^{\circ} N \frac{1}{2} W$ mag $1/8$*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith
Mate U.S.F.C.*

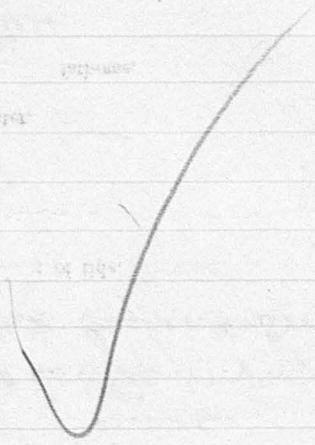
Name and position of observer, *W. L. H. H. H.
Mate U.S.F.C.*

U.S. FISH COMMISSION

1279

REMARKS.

Specimens Obtained
Sandy hollows, Pectens flat fish
Sponge Sea Robbins, Hermit crabs
Hoik, Kelp Sea Urchins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1279*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard Lt Ship W & W*

Tarpaulin Cove & E & N Bay head S W 1/4 S

Time of day, *1-54* ; of tide, *Went*

State of sky, *bc*

Temperature of air, *67*

“ surface of water, *65*

“ at depth of _____ fathoms,

“ of bottom, *64*

Depth, in fathoms, *15*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind S E*

Force of ~~surface current~~, *Wind 2*

Direction of ~~bottom current~~, *Drift W 1/2 N mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer,

1280

REMARKS.

Specimens Obtained
Sand dollars, Star fish, Pectins
Sea Robbins. Sea Urchins Hermit Crabs
Sand crabs Flat fish, Sea Ravens



TEMPERATURE RECORD.

Instrument used, *Beam trawl*

Current number of observation, *1280*

Date, *Sept 3^d 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard St Ship to NW $\frac{3}{4}$ W
*Tarpaulin Cove to E $\frac{3}{4}$ W Gayhead SW $\frac{3}{4}$ S**

Time of day, *2.15 PM*; of tide, *East*

State of sky, *bc*

Temperature of air, *72*

“ surface of water, *69*

“ at depth of _____ fathoms,

“ of bottom, *63*

Depth, in fathoms, *16*

Nature of bottom, *Sand shell*

Direction of ~~surface~~ *Wind* *SE* current,

Force of ~~surface~~ *Wind* *3* current,

Direction of ~~bottom~~ *Wind* *SE* *Mag* *1/8* current,

Force of bottom current,

Name of vessel, *U S S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *James A. Smith
 Mate U S N*

Name and position of observer, *J. M. Nighton
 Mate U S N*

REMARKS.

Specimen Obtained

Name and position of observer
Henders, Summers, ~~Conner~~

King fish, Lantz

To what service attached?

Name of vessel?

Color of bottom current?

Direction of bottom current?

Force of surface current?

Direction of surface current?

Name of bottom?

Depth in fathoms?

of bottom?

at depth of fathoms?

surface of water?

Temperature of air?

State of sky?

Time of day?

of day?

Direction?

Force?

Date?

Current number of observation?

Observation made?

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1281*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Nbake St S ~~SW~~ W $\frac{1}{2}$ W*

Mat look S $\frac{1}{4}$ W East look S $\frac{1}{2}$ E

Time of day, *2.40 Pm*; of tide, *West*

State of sky, *b-c*

Temperature of air, *70*

" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *10*

Depth, in fathoms, *3*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* *SW* current,

Force of ~~surface~~ *Wind* *2* current,

Direction of ~~bottom~~ *Drift* *SW* \times *W mag* $\frac{1}{8}$ current,

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith*
Master

Name and position of observer, *J. M. Lightham*
Master

1282

REMARKS.

Specimens Obtained
Sand, Corals, Sea Robbins
Spider Crabs, Kelp, Seal
Shells,

RECEIVED

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1282*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Northward 1/4 N*

West 1/2 S 5/8 W East 1/2 S x E 1/8 E

Time of day, *3 P.M.* ; of tide, *west*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *67*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *5*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind SW*

Force of ~~surface current~~, *Wind 2*

Direction of ~~bottom current~~, *Shift SW x W mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith
Master U.S.N.*

Name and position of observer,

1280

REMARKS.

Specimens Obtained
Lunch crate sponge
Spider Crabs, Hermit crabs
Beach shells, Star fish



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1283*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *North N 1/8 S*

West Chop S N 1/4 S East Chop S x N 3/4 N

Time of day, *3.38 P.M.*; of tide, *West*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *69*

Depth, in fathoms, *13*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind S W*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Wind S E x E 5/8 E mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Abbotte
Master*

Name and position of observer, *J. M. Linton
Master*

1284

REMARKS.

Specimens Obtained
Spider Crabs, Hermit Crabs
Land Crabs, Head Shells
Sponges

Date of day, relative position

Name of vessel

Name of person captured

Direction of person captured

Name of surface captured

Direction of surface captured

Name of person

Depth to bottom

Name of person

Name of person

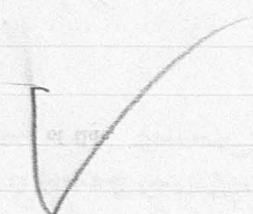
Name of person

Name of person

Name of person

Name of person

Name of person



Name of person

Name of person

Name of person

Name of person

Name of person

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1284*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Nubeka N 1/2 E*

West Cape SW East Cape SW x S 1/2 S

Time of day, *4:07 PM* ; of tide, *West*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *69*

" at depth of _____ fathoms,

" of bottom, *69*

Depth, in fathoms, *6*

Nature of bottom, *Sand*

Direction of ^{*Wind*} surface current, *ESE*

Force of ^{*Wind*} surface current, *3*

Direction of ^{*Wind*} bottom current, *West mag 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Mate*

Name and position of observer, *J. M. S. P. M.
Mate*

1285

REMARKS.

Specimens Obtained
Spider Crabs Sponge Sea Urchins
Young sculp. Small Fish

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1285*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Tarpaulin Cove N x S 1/4 S*

Gagehead S x 7/8 W Dist 4000 68 1/4 S

Time of day, *5 P.M.* ; of tide, *East*

State of sky,

Temperature of air, *69*

" surface of water, *68*

" at depth of _____ fathoms,

" of bottom, *68*

Depth, in fathoms, *12*

Nature of bottom,

Direction of ~~surface current~~ ^{*Wind*}, *ESE*

Force of ~~surface current~~ ^{*Wind*}, *3*

Direction of ~~bottom current~~ ^{*Drift*}, *S x W mag*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer, *London Smith
Master*

REMARKS.

LEWISVILLE BROOK

St Ships S 93 W
B + Celestia N 76 E
to Reach N 55 E

Ships Head ~~N 40 E~~ N 127 W

Gay Head S 49 W

Timothy St Ships N 74 W

Tanpaulin low N 40 E

to port 13
to starboard 15
Aug 28